

# 1 2 JUN 1984

| MEMORANDUM FOR:  | (See Distribution   | List)                        | 1                                     |                          |
|--|---|------------------------------|---------------------------------------|--------------------------|
|  |   |                              | , , , , , , , , , , , , , , , , , , , | 25 <b>X</b> 1            |
| FROM:  | Chief, Strategic<br>Office of Global                                | Resources Divi<br>Issues     | ision                                 | ,                        |
| SUBJECT:   | An Update on Sov  | iet Grain Crop               | Conditions                            | 25X1                     |
| on the same subj<br>the summer shoul<br>significantly al   | ect. Additional in distribution of abrupt changes ter our assessmen | in the weather tof crop cond | in the USSR itions. An i              | in-depth<br>conomic 25X1 |
| in July.   |   |                              |                                       | 25 <b>X</b> 1            |
| 2. This assessment was produced by the Agricultural Assessments  Branch, Strategic Resources Division, Office of Global Issues.  3. Comments and questions are welcome and may be addressed to the Chief, Agricultural Assessments Branch, |   | 25X1                         |                                       |                          |
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|  |   |                              |                                       |                          |
| 3. Comment<br>the Chief, Agric   | ts and questions a<br>cultural Assessmen                            | ats Branch,                  | may be addi-                          | 25X1                     |
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| Attachment: USSR: An Upd GI M 84-10109   | ate on the 1984 G   | rain Crop                    |                                       | 25X1<br>25X1             |
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|---|---------------|
| SUBJECT: An Update on Soviet Grain Crop Conditions  | 25X1          |
| OGI/SRD/AAB/ (12 June 84)   | 25 <b>X</b> 1 |
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#### DIRECTORATE OF INTELLIGENCE

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USSR: An Update on the 1984 Grain Crop

## Summary

| Drought in the lower and middle Volga Valley and parts of         |
|---|
| the Central Black Earth, North Caucasus, Volga Vyatka and western |
| Kazakhstan regions has eliminated Moscow's chances for an above-  |
| average crop this year. However, large areas of the USSR are not  |
| moisture deficient. We estimate that about two thirds of the      |
| total grain crop has fair to excellent soil moisture reserves and |
| we continue to believe grain production could go as high as 200   |
| million tons, given ideal weather for the remainder of the crop   |
| season.   |

This memorandum was prepared by

Agricultural Assessments Branch, Strategic
Resources Divison, Office of Global Issues. Comments may be directed to

Chief, Strategic Resources Division, on

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## USSR: An Update on the 1984 Grain Crop

While early drought in a key portion of the Soviet grain region precludes an above-average grain crop this year, we believe that press predictions of another disastrous crop shortfall for the country as a whole are premature. Although the drought intensified during most of May because of a stationary high pressure system over the Volga Valley, showers in portions of the afflicted area in late May and early June signaled the breakdown of this system. Weather conditions have also improved throughout the remainder of the USSR in recent weeks. Hence, even with the serious winter grain losses already experienced, total grain production in 1984 could yet reach 200 million metric tons.

### Grain Crop Developments to Date

Winter Grains. The high pressure ridge which intensified the drought in the lower and middle Volga Valley and parts of the Central Black Earth, North Caucasus, Volga Vyatka and western Kazakhstan regions in early-to-mid May has weakened considerably. Scattered showers have been falling in the region over the last three weeks. However, the continuous hot dry weather which had plagued the region for at least the previous 10 weeks greatly reduced the yield potential of many winter grainfields and will keep production there much below normal.

The negative prospects of the Valley and adjacent regions are in contrast to the improved soil moisture conditions prevailing in the Ukraine, Belorussia, Moldavia, and Krasnodar in the North Caucasus. Ample precipitation in these areas during the late spring replenished scanty soil moisture reserves caused by a dry fall, winter and early spring. The Baltic republics are also in excellent condition. Landsat and reconnaissance imagery, combined with agricultural attache reporting, corroborate the good to excellent growing conditions there (see table 1). (S NF)

With the return to more normal weather in these areas, we estimate that a winter grain harvest of 60-65 million tons is likely. A crop of this size would be 5-10 million tons larger than the estimated annual output of 55 million tons averaged during 1979-83.

Spring Grains. The rainshowers of late May and early June in the Volga Valley and adjacent regions probably did not cover

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<sup>1</sup> Throughout this paper, unless stated otherwise, the terms "average crop" or "average production" refer to the 1976-80 period average.

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ideal growing conditions prevail through the summer.

Table 1

USSR: Soil Moisture Conditions of Grain Areas As of 31 May 1984

| Region   | Percent of<br>Total USSR                       | Percent of Grain Area in<br>Soil Moisture Class <sup>2</sup> |                               |                                |
|--|--|--|-------------------------------|--------------------------------|
|  | Grain Production 1                             | Poor   | Fair                          | Good                           |
| Northwest                                      | 0.7  | 0  | 35                            | 65                             |
| Central  | 5.4  | 32   | , 39                          | 29                             |
| Volga-Vyatka                                   | . 2.3  | 88   | 12                            | 0                              |
| C. Black Earth                                 | 5.9  | 41   | 50                            | 9                              |
| Volga  | 13.0   | 83   | 16                            | 1                              |
| N. Caucasus:                                   |  |  |                               |                                |
| Krasnodar                                      | 3.8  | 11   | 11                            | 78                             |
| N. Caucasus:                                   |  |  |                               |                                |
| Remainder                                      | 4.9  | 50   | 28                            | 22                             |
| Urals  | 6.1  | 37   | 31                            | 32                             |
| W. Siberia                                     | 8.3  | 10   | 30                            | 60                             |
| E. Siberia                                     | 3.2  | 0  | 0                             | 100                            |
| Ukraine  | 22.4   | 13   | 20                            | 67                             |
| Kazakhstan <sup>3</sup>                        | 13.1   | 41   | 41                            | 18                             |
| Belorussia                                     | 3.1  | 0  | 14                            | 86                             |
| Baltiçs  | 2.6  | 4  | 34                            | 62                             |
| Other <sup>4</sup>                             | 3.5  | Not Monitored  |                               |                                |
| USSR   | 100  | 32   | 28                            | 40                             |
| 1 1971-1980 estima                             | ted average.                                   |  |                               | 25 <b>X</b> 1                  |
| Poor is defined the first meter of is 60-100%. | as 0-40% of plant availathe soil profile; fair | able soil mo<br>is defined a                                 | oisture in<br>as 40-60%; goo  | od<br>25X1                     |
| 3 Soil moisture is<br>Kazakhstan receives      | usually relatively low most of its precipitat: | at this tim  | ne of year.<br>June and July. | 25.71                          |
| 4 Includes Central<br>stable production f      | Asia and Transcaucasus                         | Republics v  | vith relativel                | 25X1 <sup>-</sup><br>y<br>25X1 |

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